

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application. No claims have been amended. New claim 104 has been added.

Listing of Claims:

1. (Previously presented) A device comprising:
 - a plurality of LEDs configured to produce light that includes at least two different spectra;
 - a material configured to receive the light emitted from the plurality of LEDs, and to display a color that is a combination of the at least two different spectra;
 - a processor configured to generate at least one control signal to control power delivered to one or more of the plurality of LEDs, the processor further configured to change the at least one control signal over time so as to produce from the device at least one dynamic lighting effect; and
 - a user interface adapted to receive a user input to control operation of the processor.
2. (Previously presented) The device of claim 1 wherein the processor is configured to operate in one of a plurality of modes, each mode producing at least one dynamic lighting effect according to one or more parameters.
3. (Previously presented) The device of claim 1 wherein the user interface consists of a single button.
4. (Previously presented) The device of claim 1 wherein the user interface consists of two buttons.

5. (Previously presented) The device of claim 1 wherein the user interface includes an adjustable input.
6. (Previously presented) The device of claim 1 wherein the user interface includes at least one of a button, a dial, a slider, a knob, or a keypad.
7. (Previously presented) The device of claim 1 wherein the at least one dynamic lighting effect comprises at least one color-changing effect including at least one of a color wash, a strobe, a fade, or a Holiday lighting effect.
8. (Previously presented) The device of claim 1 wherein the device is configured as a consumer product.
9. (Previously presented) The device of claim 1, wherein the device is configured as a replacement lighting device to engage mechanically and electrically with a conventional power adapter or socket.
10. (Previously presented) The device of claim 1, wherein the device is configured as a light bulb.
11. (Previously presented) The device of claim 1, wherein the device is configured as a landscape lighting device.
12. (Previously presented) The device of claim 1, wherein the device is configured as a night light.
13. (Previously presented) The device of claim 1, wherein the device is configured as a rope light.

14. (Previously presented) The device of claim 1, wherein the device is configured as a household product.

15. (Previously presented) The device of claim 1, wherein the device is configured as a pen.

16. (Previously presented) The device of claim 1, wherein the device is configured to form at least part of a consumer electronic device.

17. (Previously presented) The device of claim 1, wherein the device is configured as a glow stick.

18. (Previously presented) The device of claim 1, wherein the device is configured as an ornamental or decorative lighting device.

19. (Previously presented) The device of claim 18, wherein the device is configured as at least one icicle- shaped lighting device.

20. (Previously presented) The device of claim 1, wherein the device is configured to form at least part of a toy or game.

21. (Previously presented) The device of claim 20, wherein the toy is constructed and arranged as a lighted ball.

22. (Previously presented) The lighted ball of claim 21, further comprising a ball housing, wherein:

at least a portion of the ball housing includes the material; and

the plurality of LEDs are arranged to illuminate the portion of the ball housing including the material.

23. (Previously presented) The lighted ball of claim 22, further comprising:
at least one switch associated with the processor, wherein the at least one switch comprises at least one of a Hall effect switch, a motion sensing switch, a proximity detector, a sensor, a transducer, a capacitive switch, and an inductive switch,
wherein the processor is configured to be responsive to the at least one switch so as to generate the at least one control signal.
24. (Previously presented) The device of claim 1, wherein the device is configured to form at least part of a wearable accessory.
25. (Previously presented) The device of claim 24, wherein:
the device is at least partially enclosed in at least one housing;
at least a portion of the housing includes the material; and
the housing is formed as at least one of a piece of jewelery, a badge, a shoe, a sneaker, an article of clothing, a hat, and an ornamental device.
26. (Previously presented) The device of claim 25, wherein the material includes an at least partially light-transmissive material having at least one of a pattern, an etched surface, and an image thereon.
27. (Previously presented) The device of claim 25, wherein the material is formed into a shape of at least one of an icon, a logo, a branded image, a character, and a symbol.
28. (Previously presented) The device of claim 1, further including at least one support for the plurality of LEDs, wherein the material is arranged with respect to the at least one support such that the light generated by the plurality of LEDs illuminates the material.

29. (Previously presented) The device of claim 1, further including at least one sensor to monitor at least one detectable condition, wherein the processor is configured to generate the at least one control signal in response to the at least one detectable condition.

30. (Previously presented) The device of claim 1, wherein the processor is configured to receive information from a network and process the information so as to generate the at least one control signal.

31. (Previously presented) The device of claim 1, further including at least one timing device, wherein the processor is configured to respond to the at least one timing device so as to generate timed dynamic lighting effects.

32. (Previously presented) The device of claim 31, wherein the at least one timing device includes a calendar, and wherein the processor is configured to respond to the calendar so as to generate seasonal dynamic lighting effects.

33. (Previously presented) The device of claim 1, wherein the material comprises at least one of a semi-transparent material, a translucent material, a light-diffusing material and a transparent material.

34. (Previously presented) The device of claim 33, wherein the material includes a pattern of defects configured to redirect the light passing through or along the material.

35. (Previously presented) The device of claim 33, further comprising a housing, wherein the plurality of LEDs and the processor are supported by the housing, and wherein the material forms at least a portion of the housing.

36. (Previously presented) The device of claim 35, wherein the housing is configured such that the plurality of LEDs and the processor are substantially enclosed by the housing.

37. (Previously presented) The device of claim 35, wherein the user interface is integrated into the housing.

38. (Previously presented) The device of claim 33, further comprising:
a first housing portion that substantially encloses at least the processor; and
a second housing portion, coupled to the first housing portion, that substantially encloses the at least two LEDs, wherein the material forms at least a portion of the second housing portion.

39. (Previously presented) The device of claim 38, wherein the first housing portion includes a battery case configured to contain at least one battery to provide power to the device.

40. (Previously presented) The device of claim 1, further comprising at least one optic.

41. (Previously presented) The device of claim 40, wherein the at least one optic includes at least one detachable optic.

42. (Previously presented) The device of claim 40, wherein the at least one optic includes one of a reflector, a diffuser, a filter, a lens, a secondary optic, a holographic lens, an anamorphic lens, and a patterned lens.

43. (Previously presented) The device of claim 1, further comprising a power converter to provide power for at least one of the processor and the plurality of LEDs.

44. (Previously presented) The device of claim 1, further comprising a power connection adapted to engage mechanically and electrically with a conventional light socket.

45. (Previously presented) The device of claim 44, wherein the power connection includes at least one of a plug, a bi-pin base, and a screw base.

46. (Previously presented) The device of claim 44, wherein:

the power connection includes a base adapted to engage mechanically and electrically with a conventional three-way socket; and

the user interface includes a switch of the conventional three-way socket,
wherein the processor is configured to generate the at least one control signal based at least in part on a setting of the switch of the conventional three-way socket.

47. (Previously presented) The device of claim 1, wherein the processor is configured to monitor a power supply signal to the device and to generate the at least one control signal based at least in part on the monitored power supply signal.

48. (Previously presented) The device of claim 47, wherein the user interface is configured to control at least power to the device.

49. (Previously presented) The device of claim 48, wherein the user interface includes a conventional AC dimmer control to vary the power supply signal to the device, and wherein the processor generates the at least one control signal in response to operation of the conventional AC dimmer control.

50. (Previously presented) The device of claim 49, wherein the processor is configured to produce from the device the at least one dynamic lighting effect in response to operation of the conventional AC dimmer control, including at least one of a dimming effect, a color-changing effect, and a light pattern effect.

51-103. (Withdrawn)

104. (New) The device of claim 1, wherein the processor is configured to automatically change the at least one control signal over time upon the device being turned on.